



鞍钢股份有限公司  
Angang Steel Company Limited

# 产品质量证明书

## INSPECTION CERTIFICATE



中国鞍山市铁东区团结街42号 邮编 114002  
No.42 Tuanjie Street Tiedong District 114002  
Anshan, P. R. China  
Tel 0086-8008900858 Fax 0086-0412-6728486

制造厂: 鞍钢股份有限公司鲅鱼圈中厚板厂5500线  
Manufacturer: Bayuquan Heavy Plate Plant 5500 Line of AnSteel

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|                     |                 |                       |                        |                                      |             |                                 |              |
|---------------------|-----------------|-----------------------|------------------------|--------------------------------------|-------------|---------------------------------|--------------|
| 订货单位<br>Buyer       | 鞍钢集团国际经济贸易有限公司  | 产品名称<br>Product       | 中厚板                    | 订单号<br>Order No.                     | C2450840001 | 质量证明书编号<br>Test Certificate No. | CB2406210603 |
| 收货单位<br>Consignee   | 鞍钢股份有限公司 (外贸出口) | 购单号<br>Purchase Order | 24AITC2HRP04234911B    | 发货日期<br>Date of Delivery             |             |                                 |              |
| 客户名称<br>Customer    | 鞍钢集团国际经济贸易有限公司  | 标志号<br>Mark No        | PRODALAM MADE IN CHINA | 交货状态<br>Delivery Condition           | AR          |                                 |              |
| 标准<br>Specification | ATA BHB039-24   | 钢牌号<br>Grade          | LRB                    | 船板证明书号<br>Inspection Certificate No. | DLN2400707  |                                 |              |

| 序号<br>No. | 物料号<br>Pack No.          | 规格(mm)<br>Dimensions mm |              | 重量(kg)<br>Weight | 件数<br>Pcs. | 化学成分<br>Chemical Composition (%) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                | 拉伸试验<br>Tension Test |            |            |                           | 冲击试验<br>Charpy Impact       |                |      |           |     | 厚度方向性能<br>Through Thickness Properties |    |                |                              | 落锤<br>NDT |   |   |            |                             |                |    |               |                             |   |
|-----------|--------------------------|-------------------------|--------------|------------------|------------|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------|----------------------|------------|------------|---------------------------|-----------------------------|----------------|------|-----------|-----|--|----|----------------|------------------------------|-----------|---|---|------------|-----------------------------|----------------|----|---------------|-----------------------------|---|
|           |                          | 厚度<br>Thickness         |              |                  |            | C                                | Si               | Mn               | P                | S                | Als              | Ni               | Cr               | Cu               | Mo               | 位置<br>方向<br>+2 | 屈服<br>Y.S.           | 抗拉<br>T.S. | 伸长<br>EL % | 屈强<br>比<br>Y.S/<br>T.S. % | 台账<br>页码<br>Account<br>Page | 位置<br>方向<br>+2 | C°   | 10*5*55mm |     |  |    | 位置<br>方向<br>+2 | 断面收缩率 %<br>Reduction of Area |           |   |   | 抗拉<br>T.S. | 台账<br>页码<br>Account<br>Page | 位置<br>方向<br>+2 | C° | 结果<br>Results | 台账<br>页码<br>Account<br>Page |   |
|           |                          | 宽度<br>Width             | 长度<br>Length |                  |            | 10 <sup>-3</sup>                 | 10 <sup>-2</sup> | 10 <sup>-2</sup> | 10 <sup>-3</sup> |                |                      |            |            |                           |                             |                |      | ReH       | Mpa | 1                                      | 2  |                | 3                            | Ave       | 1 | 2 |            |                             |                |    |               |                             | 3 |
| 1         | B46191391000<br>24ND3285 | 2440                    | 12000        | 1379             | 1          | 0                                | 138              | 15               | 89               | 18               | 3                | 24               | 10               | 25               | 11               | 4              | T111                 | 307        | 420        | 36                        |                             | 69             | T216 | 0         | 86  | 93                                     | 94 | 91             | 69                           |           |   |   |            |                             |                |    |               |                             |   |
| 2         | B46191392000<br>24ND3285 | 2440                    | 12000        | 1379             | 1          | 0                                | 138              | 15               | 89               | 18               | 3                | 24               | 10               | 25               | 11               | 4              | T111                 | 307        | 420        | 36                        |                             | 69             | T216 | 0         | 86  | 93                                     | 94 | 91             | 69                           |           |   |   |            |                             |                |    |               |                             |   |
| 3         | B46191393000<br>24ND3285 | 2440                    | 12000        | 1379             | 1          | 0                                | 138              | 15               | 89               | 18               | 3                | 24               | 10               | 25               | 11               | 4              | T111                 | 307        | 420        | 36                        |                             | 69             | T216 | 0         | 86  | 93                                     | 94 | 91             | 69                           |           |   |   |            |                             |                |    |               |                             |   |
| 4         | B46191401000<br>24ND3285 | 2440                    | 12000        | 1379             | 1          | 0                                | 138              | 15               | 89               | 18               | 3                | 24               | 10               | 25               | 11               | 4              | T111                 | 308        | 425        | 37                        |                             | 69             | T216 | 0         | 80  | 86                                     | 95 | 87             | 69                           |           |   |   |            |                             |                |    |               |                             |   |
| 5         | B46191402000<br>24ND3285 | 2440                    | 12000        | 1379             | 1          | 0                                | 138              | 15               | 89               | 18               | 3                | 24               | 10               | 25               | 11               | 4              | T111                 | 308        | 425        | 37                        |                             | 69             | T216 | 0         | 80  | 86                                     | 95 | 87             | 69                           |           |   |   |            |                             |                |    |               |                             |   |
| 6         | B46191403000<br>24ND3285 | 2440                    | 12000        | 1379             | 1          | 0                                | 138              | 15               | 89               | 18               | 3                | 24               | 10               | 25               | 11               | 4              | T111                 | 308        | 425        | 37                        |                             | 69             | T216 | 0         | 80  | 86                                     | 95 | 87             | 69                           |           |   |   |            |                             |                |    |               |                             |   |
| 合计        |                          |                         |              | 8274             | 6          |                                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                |                      |            |            |                           |                             |                |      |           |     |  |    |                |                              |           |   |   |            |                             |                |    |               |                             |   |

|                   |  |           |            |
|-------------------|--|-----------|------------|
| 探伤UT              | 标准Standard :   | 级别Class : | 结果Result : |
| 注释<br>Notes       | *1化学成分: 0.熔炼分析 Heat Analysis; 1.产品分析Product Analysis; *2位置方向: 大样位置-下头部Head、B.尾部Tail + 试验方向-1横向 Transverse、2.纵向Longitudinal、3.2个取样位置-1.板宽1/4、2.板宽1/2、3.板边、4.角部 + 厚度方向位置-1、原厚、2、表面下2mm、3、厚度1/4、4、厚度1/2、5、保留一个轧制面、6、表面下小于2mm、7、厚度1/3。<br>1、Ceq=C+Mn/6.            |           |            |
| 备注<br>Remark      | 上述元素仅列出参与复合公式的有意添加元素, 但复合元素结果是严格按公式计算得出。The above elements only list the intentionally added elements that participate in the composite formula, but the composite element results are strictly calculated according to the formula. According to EN 10204 3.2 |           |            |
| 说明<br>Description | 我们在此证明此材料采用已被认可的方法制造, 并且经检验符合LR船规的要求。<br>We hereby certify that the material has been made by an approved process and been satisfactorily tested in accordance with the rules of Lloyd's Register.   |           |            |



质量专章  
Quality Management  
产品  
CHINA

质量保证负责  
Quality Manager

验船师  
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质保书流水号: BC202406008749